# Evaluate Continuing Calibration Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW051520\
Data File : VW015445.D
Acq On : 15 May 2020 20:11
Operator : SY/VA
Sample : VSTDCCC050
Misc : 5.00G/5ML/MSVOA W/SOIL
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** MSVOA_W
**LabSampleId :** VSTDCCC050

Quant Time: May 18 02:08:01 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W050620S.M
Quant Title : SW846 8260
QLast Update : Tue May 05 18:41:17 2020
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 50.000 | 50.000 | 0.0 | 104 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 48.158 | 3.7 | 97 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 42.075 | 15.8 | 93 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 42.614 | 14.8# | 88 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 40.860 | 18.3 | 93 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 41.811 | 16.4 | 90 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 33.440 | 33.1# | 68 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 51.265 | -2.5 | 112 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 46.064 | 7.9 | 97 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 48.235 | 3.5 | 102 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 300.762 | -20.3 | 130 | 0.02 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 44.153 | 11.7# | 93 | 0.00 |
| 13 | T | Acrolein | 250.000 | 192.388 | 23.0 | 79 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 46.141 | 7.7 | 98 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 274.669 | -9.9 | 114 | 0.00 |
| 16 | T | Acetone | 250.000 | 267.703 | -7.1 | 115 | 0.01 |
| 17 | T | Carbon Disulfide | 50.000 | 43.271 | 13.5 | 90 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 54.557 | -9.1 | 119 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 52.221 | -4.4 | 110 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 47.140 | 5.7 | 109 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 46.546 | 6.9 | 97 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 48.186 | 3.6 | 101 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 256.364 | -2.5 | 107 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 47.186 | 5.6 | 99 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 278.666 | -11.5 | 118 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 41.549 | 16.9 | 88 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 48.189 | 3.6 | 101 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 48.567 | 2.9 | 102 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 275.931 | -10.4 | 115 | 0.00 |
| 30 | C | Chloroform | 50.000 | 47.758 | 4.5# | 100 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 39.723 | 20.6 | 86 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 45.661 | 8.7 | 93 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 52.322 | -4.6 | 108 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 103 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 51.694 | -3.4 | 106 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 44.874 | 10.3 | 92 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 55.763 | -11.5 | 113 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 44.845 | 10.3 | 91 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 43.225 | 13.5 | 90 | 0.00 |
| 40 | TM | Benzene | 50.000 | 46.484 | 7.0 | 97 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 55.119 | -10.2 | 123 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 50.634 | -1.3 | 106 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 54.724 | -9.4 | 116 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 46.999 | 6.0 | 97 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 47.959 | 4.1# | 101 | 0.00 |

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Misc : 5.00G/5ML/MSVOA W/SOIL
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**Instrument :** MSVOA_W
**LabSampleId :** VSTDCCC050

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Quant Title : SW846 8260
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Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 46 | T | Dibromomethane | 50.000 | 51.515 | -3.0 | 108 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 49.699 | 0.6 | 103 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 55.255 | -10.5 | 114 | 0.00 |
| 49 | T | 1,4-Dioxane | 1000.000 | 1281.163 | -28.1# | 126 | 0.01 |
| 50 | S | Toluene-d8 | 50.000 | 49.285 | 1.4 | 100 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 280.442 | -12.2 | 117 | 0.00 |
| 52 | CM | Toluene | 50.000 | 46.513 | 7.0# | 96 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 50.246 | -0.5 | 104 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 48.802 | 2.4 | 101 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 51.364 | -2.7 | 108 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 54.505 | -9.0 | 113 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 51.293 | -2.6 | 108 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 272.655 | -9.1 | 111 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 287.759 | -15.1 | 119 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 52.656 | -5.3 | 109 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 52.835 | -5.7 | 109 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 51.390 | -2.8 | 103 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 107 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 46.426 | 7.1 | 99 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 46.047 | 7.9 | 99 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 47.790 | 4.4 | 103 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 45.557 | 8.9# | 98 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 92.285 | 7.7 | 99 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 46.610 | 6.8 | 98 | 0.00 |
| 70 | T | Styrene | 50.000 | 47.242 | 5.5 | 99 | 0.00 |
| 71 | P | Bromoform | 50.000 | 53.142 | -6.3 | 109 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 107 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 44.798 | 10.4 | 97 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 51.261 | -2.5 | 114 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 51.564 | -3.1 | 112 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 48.613 | 2.8 | 91 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 46.903 | 6.2 | 102 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 43.879 | 12.2 | 95 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 45.175 | 9.7 | 97 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 44.420 | 11.2 | 95 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 49.567 | 0.9 | 107 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 44.912 | 10.2 | 97 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 45.078 | 9.8 | 96 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 45.475 | 9.0 | 97 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 44.242 | 11.5 | 94 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 45.640 | 8.7 | 96 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 46.639 | 6.7 | 99 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 46.108 | 7.8 | 98 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 44.405 | 11.2 | 93 | 0.00 |

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Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 90 T | Hexachloroethane | 50.000 | 46.358 | 7.3 | 100 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 50.000 | 48.033 | 3.9 | 105 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 54.504 | -9.0 | 119 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 50.000 | 51.951 | -3.9 | 112 | 0.00 |
| 94 T | Hexachlorobutadiene | 50.000 | 48.119 | 3.8 | 103 | 0.00 |
| 95 T | Naphthalene | 50.000 | 57.921 | -15.8 | 123 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 52.276 | -4.6 | 114 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6